DISTRICT OF COLUMBIA BUILDING CODE ADVISORY COMMITTEE

c/o DCRA/BLRA · 941 North Capitol Street, NE, Ste. 2000 · Washington, DC 20002

CODE CHANGE PROPO	SAL FORM			2003 10	CC FAMIL	Y OF CODES
PAGE 1 OF 2						
CODE IBC	SECTION NO.	. 716.5.3.1	SUBCOMM	ITTEE AMEN	DMENT NO.	FLS-3
PROPOSING SUBCOMMITTEE	FLS CH	IAIR Devlin	PHONE	301/220-1212	E-mail john_o	devlin@schirmereng.com
DATES: OF PROPOSAL 04/20/	/05 BCAC	C PRESENTA	ΓΙΟΝ 04/20/03	BCA	C APPROVAL	
	to read as follows. on to read as follo			ction and subst ction without si	itute the followi ubstitution.	ng:
TYPE ALL TEXT IN 12-POINT TO LINE THROUGH TEXT TO BE DE UNDERLINE TEXT TO BE ADDED	LETED (highligh		<u>rmat,</u> click font ar	nd check striketh	hrough)	
716.5.3.1 Penetrations of shaft openings shall be protected with						and air transfer
Exceptions: 1. Fire dampers are not required 1.1. Steel exhaust subducts continuous airflow upward 1.2. Penetrations are tested 1.3. Ducts are used as part and where the fire damper 1.4. The penetrations are in less than 2-hour fire-resista 2. In Group B occupancies, equipancies, equipancies dampers are not req 2.1. Bathroom and toilet ro inches (0.48 mm) that exter continuously in accordance 2.2. Ducts are used as part and where the smoke damp 3. Smoke dampers are not required building shafts by not less than 2 1. Fire and smoke dampers are not required exhaust shafts provided there is a	extended at least to the outside, or in accordance wo of an approved swill interfere with parking garage mee-rated construired at penetration exhaust opened at least 22 incomplete with the provision of an approved some will interfere ed at penetration hour fire resistant or required where a continuous airfless.	of 22 inches (5) of with ASTM E I smoke control the the operation exhaust or suguetion. with an autom ions of shafts in ions of Section smoke control with the opera in of exhaust or ince rated control esteel exhaust low upward to	19 as part of the system designed of the smoke could be ply shafts that a satic sprinkler synthere: I exhaust subduction of the smoke could be supply shafts in struction. I sub-ducts exter the outside.	e rated assemb- and installed ontrol system, re separated fr stem in accord ets, having a ware exhaust fandins airflow upvolded e control system parking garage	ly, or in accordance or or other build lance with Sectoral thickness of at the upper term accordance or or or or or or or or other build lance with accordance or or or or other lances (559 mm)	with Section 909, ing shafts by not tion 903.3.1.1, f at least 0.019 rminus, powered side, or with Section 909, arated from other a) vertically in
rated assembly. 3. Fire and smoke dampers are r	-				-	_
with Section 909. 4. Fire and smoke dampers are reseparated from other building shades. 5. Smoke dampers are not require accordance with Section 903.3.1	afts by not less the	han 2-hour fire	-resistance-rated	l construction.	<u>.</u>	_
2.1. Bathroom and toilet roinches (0.48 mm) that extere continuously in accordance 2.2. Ducts are used as part and where the smoke damp 3. Smoke dampers are not require building shafts by not less than 2. Fire and smoke dampers are not exhaust shafts provided there is a 2. Fire dampers are not required rated assembly. 3. Fire and smoke dampers are rewith Section 909. 4. Fire and smoke dampers are reseparated from other building shafts.	om exhaust open and at least 22 inc with the provision of an approved ser will interfere ed at penetration hour fire resistant or required where penetration where penetration to required where penetration of required where the builties of the penetration o	re ducts are us	l exhaust subduction of the smokestruction. sub-ducts extent the outside. in accordance we ded as part of an accordance in parking-resistance-rated	ne exhaust fan- ins airflow upv l and installed e control syste parking garag id at least 22 in ith ASTM E11 approved smol	at the upper terward to the outsin accordance om, or es that are separated as part of the ke-control systems.	eminus, powered side, or with Section 909, with Section 909, wrated from other a) vertically in e fire resistance em in accordance shafts that are

PAGE <u>2</u> OF <u>2</u>

Anticipated impact of code change on cost of construction (CHECK ONE)								
☐ Increase ☐ Decrease		\square Negligible	☐ Unknown					
	d, indicate estimated rang F single-family dwelling F of commercial building	\$	to to	\$ \$				

JUSTIFICATION OF CHANGE:

Required the installation of smoke dampers in addition to fire dampers at penetrations of shaft enclosures creates an economic hardship on the owner without a clear justification based on considerations of protection of safety, health and welfare of the building occupants or population at large. There is no data that shows the omission of smoke dampers at penetrations of shaft enclosures fails to provide a fire safe building. The installation of smoke dampers at shaft penetrations creates maintenance and operational conditions that may render these devices ineffective when required to perform. In addition, these devices increase the building construction cost and operations maintenance costs and provide little or no benefit in improved building fire safety.